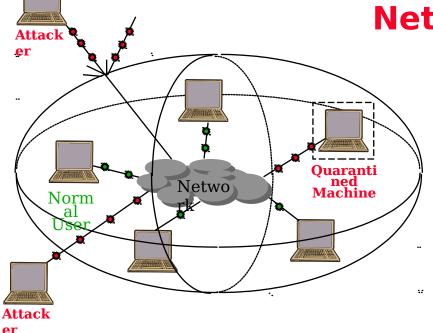
Survivable Active

Networks



- highaevel language to capture securityrelated behaviors -- designed for simplicity, clarity, conciseness and detection system robustness
- efficient techniques for checking/enforcing conformity of process or host behavior with specifications
- techniques to prevent compromised programs from damaging system while they continue to run -- enables observation/tracing of attacker
- active-networking based techniques for isolating and locating attacker

Impact

- proactive/preventive approach will provide better protection for missioncritical systems, e.g., military, telecom, banking/commerce
- automated response capabilities will enable
 - isolation and containment of damage
 - evidence collection leading to identification of attack source and greater knowledge of exploits
 - cost-effective operation

Schedul

Sesign all techniques
First implementations of detection and isolation techniques

Implementation of coordination and identification techniques

single host

Demo detection and isolation techniques on

techniques on network of hosts Demo effec-

Integration of all

tiveness of system by testing against attack scenarios

Aug 97 Start Aug 98 Aug 99

Aug 00 End